Geom. analyuns 35 populus K1. ((6,4) 1. A(-3,1) B(3,-3)S(Q, b) - Swod eh (x-a)2+(y-b)2=~2 I 9+60 to +1-26+62=~ (-3-a)2 + (1-6)2=22 II/25-100 +03 +9+66+62=~2 (5-a)2+(3-6)2=~2 136-120 -122 + 16-86-62=22 (6-a)2+(4-6)2=~2 INT 10 + 60 - 26 + 2 + 182 = 34 - 100 + 66 + 2 + 182 16a-86=241:8 [20-6=3] 10+60-26+2+12=52-120-80+2-12 180 +66 = 42/:6 30 +6-7, 20-6=3 3a +6 = 7

$$\frac{1}{3a+6=7}$$

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$$\frac{1}{5a=10} \Rightarrow a=2 \Rightarrow b=2a-3=4-3=1. \Rightarrow 5(2,1)$$

$$\frac{1}{5a=10} \Rightarrow a=2 \Rightarrow b=2a-3=1. \Rightarrow a=2 \Rightarrow b=2a-3=1. \Rightarrow a=2 \Rightarrow b=2a-3=1. \Rightarrow a=2 \Rightarrow b=2a-3=1. \Rightarrow a=2 \Rightarrow b=2a=3=1. \Rightarrow a=2 \Rightarrow a$$

2. A (-2,-1) D(2,2) pr. BD + pr. AC. 1: -3x -y + C=0 DEL => -6-2+(=0=) C=8 : -3x-y+8=0/.61/ 3x+y-8=0

0= kal \$\frac{1}{3}\times +1/-8=0 \langle 3

+ X-3y-1=0

ki x-3y-1=0

Zuter
$$-1=8-3\times = 8=\frac{15}{2}=\frac{1}{2}=\frac{1}{2}=0(\frac{5}{2},\frac{1}{2})$$

$$0 = 5_{00}$$

$$\left(\frac{5}{2}, \frac{1}{2}\right) = \left(\frac{2 + \times 3}{2}, \frac{2 + y_{0}}{2}\right) = 5 = 2 + \times 3 \quad 1 = 2 + y_{0}$$

$$\times B = 3 \quad 1 \quad y_{0} = -1$$

$$\left(\frac{13}{2}, \frac{3}{2}, -1\right),$$

6) pv. AB:

$$y = ax + b$$

 $a = \frac{-1+1}{3+2} = 0$
 $y = b$
 $y = -1$
 $y + 1 = 0$

$$d(pr.AB, pr.cd) = d(D, pr.AB) = \sqrt{1} = 3$$

3.
$$o_n \cdot (x-3)^2 + (y-2)^2 = 4$$
 $v = 2$ $5(3,2)$

$$v = 2x + y - 1 = 3$$

$$v = -2x + 1$$

$$\frac{|6-2+c|-2}{\sqrt{4+n}} = 2 \implies |4+c| = 2\sqrt{5}$$

$$4+c = 2\sqrt{5} \quad \forall \quad 4+c = -2\sqrt{5}$$

$$c-2\sqrt{5}-4 \quad \forall \quad c = -2\sqrt{5}-4$$

$$c \in \{2\sqrt{5}-4\}, -2\sqrt{5}-4\}$$

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4.
$$A(-3,4)$$
 $B(1/10)$ $C(6,1)$
 $\vec{v} = \vec{A}\vec{c} + \vec{B}\vec{c} = [9,-3] + [5,1] = [14,-2]$ $|\vec{v}| = \sqrt{196+4} = \sqrt{200} = 10\sqrt{2}$

$$\begin{array}{l}
A_{3}^{2} = 3 \cdot A_{3} \\
\times_{s+3} : y_{s}-4) = 3 \cdot [4,-4] \\
\times_{s+3} = 12 \\
y_{s-4-1}-42
\end{array}$$

$$\begin{array}{l}
\times_{s+3} = 9 \\
y_{s-4-1}-42
\end{array}$$

$$\begin{array}{l}
\times_{s=9} \\
y_{s-8}
\end{array}$$

gdue
$$P(A) = A'$$
, $P(B) = B'$.

$$|A'B'| = \sqrt{(Y_B + 4 - Y_A - 4)^2 + (-x_B + 6 + x_A - 6)^2} = \sqrt{(Y_B - Y_A)^2 + (-x_B + x_A)^2} = \sqrt{($$

$$b_{10}: \times^{2} + y^{2} - 4x + 6y + 12 = 0$$
 $5(2_{1}-3)$ $x = \sqrt{4+9-12} = 1$